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NUREG/CR-4322
Vol. 2

Corporate Data Network (CDN) Data Requirements Task

Data Entity Dictionary

ORIGINAL

Touche Ross and Company

Prepared for
U.S. Nuclear Regulatory
Commission

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NUREG/CR-4322
Vol. 2

Corporate Data Network (CDN) Data Requirements Task

Data Entity Dictionary

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CORPORATE DATA NETWORK

DATA REQUIREMENTS TASK

D A T A E N T I T Y D I C T I O N A R Y

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I. OVERVIEW

The purpose of this section is to:

- Describe the objective of the Data Entity Dictionary;
- Outline our approach to developing the dictionary ;
- Identify any key assumptions; and
- Describe the contents of the dictionary.

A. OBJECTIVE

The objective of developing a data entity dictionary is to identify key characteristics of the data entities such as volumes, origin, access, and frequency. This information, combined with subsequent data modeling, will assist in setting priorities for the development of logical databases/ applications.

B. APPROACH

Our approach to developing the dictionary involved three major activities:

- Define the data entities.

  Once the data entities were identified for the Enterprise Model, we drafted a definition of each entity. We then met with technical, legal, and administrative resource staff to review the definitions. Based on these meetings, we revised the definitions.

- Collect information on the "properties" of the data entities.

  Based on recommendations of the CDN liaisons, we contacted key individuals in each office to request further information. These individuals provided us with information on the "properties" of the data entities. These properties included origin of the data entity, type of access, volume, and frequency of changes made to the data entity.

- Revise Data Entity Dictionary.

  Based on an in-depth review by all organizations in the NRC, we revised the data entity definitions and their properties. This revised data dictionary will be used in

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conjunction with the Data Model (to be developed next in this project) to set priorities in the development of logical databases/applications.

C. ASSUMPTIONS

In developing the final Data Dictionary, we used information provided to us by the NRC during interviews or group meetings, and through the Enterprise Model/Data Dictionary validation process. Information on the properties of the entities, such as origin, access and frequency, was not available in the current systems documentation. Consequently, the information presented in the dictionary assumes that each organization reviewed the properties of the data entities during the validation process and has provided us with the correct information.

D. CONTENTS OF THE DICTIONARY

The data dictionary contains the following information:

- Entity Name;
- Definition;
- Synonyms;
- Properties, including:
  - Origin,
  - Access,
  - Volume,
  - Frequency; and
- Example Attributes.

Each of these items are described in Exhibit I-1 on the following page.

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EXHIBIT I-1

DESCRIPTION OF ITEMS IN THE DATA ENTITY DICTIONARY

ITEM	DESCRIPTION
Entity Name	Word(s) most commonly used in the NRC to describe the entity type.
Definition	A broad, non-technical definition of the data entity to assure that all aspects of the entity would be included.
Synonyms	Other terms frequently used in the NRC which have the same general meaning. Not all data entities have synonyms.
Origin	The organization that either initially receives information about the data entity from an outside source or, if the data entity is internally generated, generates the initial information about the data entity.
Access	The availability of the data entity and its attributes for usage in the organization. Types of access are: - Shared (multi-user), - Stand-alone (single user), - Sensitive (reserved for a few), and - Classified (reserved for those with a "need to know"). If there is more than one access type shown, different attributes of the entity require different access.
Volume	The count of that data entity currently existing. If there is more than one type of the data entity, the volume for each type is listed separately, if known.
Frequency	The occurrence of adding, deleting or changing the value of an attribute of an entity.
Example Attributes	Representative examples of attributes of the data entity. Not intended to be a comprehensive listing of all the information required about the data entity. Where appropriate, examples of values of attributes are provided in parentheses.

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A. SYNONYM CROSS REFERENCE

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SYNONYM CROSS REFERENCE

The following is a list of terms used in the NRC which are synonymous with data entities in this dictionary:

TERM	DATA ENTITY
Accident	Event
Account Code	G/L Account
Act	Statute
Alert	Event
Applicant	License Applicant
Assignment	Work Item
Bill	Statute
Brief	Pleading
Case (investigation)	Investigation (case)
Cask	Package
Commitment	Licensee Commitment
Contention	Pleading
Crisis	Event
Electric Utility	Power Utility
Emergency	Event
Engineering Report	Topical Report
Facility (NRC)	Building (NRC)
Facility (reactor)	Unit
Fuel Cycle	Radioactive Material (accountability)
IE Bulletin	Bulletin
Incident	Event
Information Bulletin	Bulletin

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TERM	DATA ENTITY
Instrument	Equipment (NRC technical)
Intellectual Property	Patent
Issue	Backfit Issue, Generic Issue, Issue (general), Unresolved Safety Issue
Law	Statute
Legislation	Statute
Measurement	Test
Miscellaneous Item	Work Item
Motion	Pleading
Non-compliance	Violation
Occurrence	Event
Operator	Reactor Operator
Outstanding Item (licensing)	Open Item (licensing)
Plan	Licensee Plan
Plant	Unit
Record	Document
Regulatory Guide	Guide/Standard (NRC)
Response	Pleading
Rule	Regulation
SALP Evaluation	Licensee Performance Evaluation
SECY Paper	Commission Paper
Standard	Guide/Standard (NRC)
Supplier (NRC)	Contractor (NRC)
Task Force	Committee
Trip	Travel
Work Group	Committee

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B. DEFINITIONS, PROPERTIES AND EXAMPLE ATTRIBUTES

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ENTITY NAME:	DEFINITION:
Advisor/Consultant/ Expert	A non-NRC employee or organization having skills, training, knowledge or expertise of interest to the NRC

PROPERTIES:

Origin:

Any organization

Access:

Shared

Volume:

100's of advisors, consultants or experts in total

Frequency:

As required

EXAMPLE ATTRIBUTES:

Address
Area of Expertise
Conflict of Interest
Current Employer
Name
Social Security Number
Telephone Number
Type (advisor, consultant, expert)

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ENTITY NAME:	DEFINITION:
Allegation	A statement which alleges the existence of facts violating Commission requirements or affecting the health and safety of the public

---

PROPERTIES:

Origin:

Any organization
Consolidated in DL

Access:

Shared, Sensitive, Stand-alone

Volume:

1,000-2,000 allegations filed/year

Frequency:

Daily

EXAMPLE ATTRIBUTES:

Alleged Against
Closing-action
Confidentiality Status
Consequence
Date of Occurrence
Date Reported
Description/Characterization
Docket Number
Generic Applicability
ID Number
Key Phrase
Milestone
Occurrences
Report Number
Response
Responsibility
Schedule
Source
Status
Subject

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ENTITY NAME:	DEFINITION:
Appeal	An application for adjudication or review by a higher agency or authority

---

PROPERTIES:

Origin:

DL
NMSS
ES
GC
ASLAP
ASLBP
ELD and all of its divisions
OCM
SECY

Access:

Shared

Volume:

70-100 appeals/year

Frequency:

Monthly

EXAMPLE ATTRIBUTES:

Appealed by
Date
Docket Number
Enforcement Action Number
External
Internal
Response Due Date
Results
Subject

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ENTITY NAME:	DEFINITION:
Backfit Issue	A unit specific matter which has sufficient safety consequences that it may require retrofitting
SYNONYM:	Issue

PROPERTIES:

Origin:

Any organization
Consolidated in DL and ROGRS

Access:

Shared

Volume:

25-40 backfit issues/year (95% lead to appeals)

Frequency:

Monthly

EXAMPLE ATTRIBUTES:

Area
Area of Origin
Cognizance
Date Initiated
Date (completed)
Description
Docket Number
Origin
Position Description
Sequence Number
Source
Subject
Substance Description
Type Cognizance (closing)
Type Date (appeal)
Type Description (appeal)

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ENTITY NAME: Budget

DEFINITION: A fiscal year plan for the management of resources expressed in dollars and FTE's

---

PROPERTIES:

Origin:

Any organization
Consolidated in RM/B

Access:

Shared, Sensitive (dependent on phase)

Volume:

To Be Determined

Frequency:

Daily, Weekly, Monthly (dependent on phase)

EXAMPLE ATTRIBUTES:

Allotment
Budgeted Dollars
Budgeted Man-hours
Commitment
Expended Dollars
Expended Man-hours
Fiscal Year
Forecast
FTE's
History
Object Class
Obligations
Staffing

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ENTITY NAME:	DEFINITION:
Building (NRC)	A structure occupied by the NRC
SYNONYM:	Facility (NRC)

PROPERTIES:

Origin:

FOS

Access:

Shared

Volume:

12 headquarters buildings
6-10 regional buildings
80-85 resident offices

Frequency:

Daily

EXAMPLE ATTRIBUTES:

Configuration
Lease
Location
Occupant
Security
Size
Type
Utilization

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ENTITY NAME:	DEFINITION:
Bulletin	A technical directive issued by the NRC to more than one licensee requiring that a specific response be given or an action be taken
SYNONYM:	Information Bulletin, IE Bulletin

PROPERTIES:

Origin:

DEP
IE

Access:

Shared

Volume:

3-5 bulletins/year

Frequency:

Monthly

EXAMPLE ATTRIBUTES:

Applicability
Bulletin Number
Closure Assignment
Closure Status
Date
Description
Inspection Procedure
Response Due Date
Revisions/Supplements
Subject

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ENTITY NAME:	DEFINITION:
Case (legal)	A dispute requiring legal or agency resolution

PROPERTIES:

Origin:

SECY
ASLBP
ASLAP
GC
ELD
LHD

Access:

Shared, Classified (less that 1%)

Volume:

50 cases/year

Frequency:

Monthly

EXAMPLE ATTRIBUTES:

Activity
Court
Date Assigned
Date Due
Docket Number
Duration
ID Number
Manpower
Milestone
Outcome
Reason for Denial
Responsibility
Schedule
Status
Subject
Title
Tribunal
Type (licensing)

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ENTITY NAME:	DEFINITION:
CDN Index (help menu)	An index specifying the location of information in the CDN

PROPERTIES:

Origin:

RM/D

Access:

Shared

Volume

Multiple help menus

Frequency:

As required

EXAMPLE ATTRIBUTES:

Access Instructions
Location
Subject

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ENTITY NAME:	DEFINITION:
Commission Order	A directive of the Commission which either represents final Agency action or which requires further action by the NRC staff and/or other interested parties

---

PROPERTIES:

Origin:

OCM
SECY

Access:

Stand-alone (ex parte)

Volume:

200-250 commission orders issued/year

Frequency:

As required

EXAMPLE ATTRIBUTES:

Date Effective
Date Issued
Description
Order Number
Subject

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ENTITY NAME:	DEFINITION:
Commission Paper	A paper directed to the Commission that addresses an issue upon which the NRC has been asked to take action, such as Policy Issue Papers, Rule Making Issue Papers, Adjudication Issue Papers, and Information Papers
SYNONYM:	SECY Paper

PROPERTIES:

Origin:

Any organization
(Consolidated in SECY)

Access:

Shared, Sensitive, Classified, Stand-alone

Volume:

500 papers/year

Frequency:

Daily or as required

EXAMPLE ATTRIBUTES:

Action Proposed
Author
Cause
Close Out Date
Commission Action
Contact
Date Issued
Meeting Date
Publicly Released Date
Revision
SECY Number
Subject
Type
Vote

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ENTITY NAME:	DEFINITION:
Committee	A group of individuals chosen to consider, investigate, and report or take action on an NRC matter
SYNONYM:	Task Force, Work Group

PROPERTIES:

Origin:

Any organization

Access:

Shared

Volume:

Dozens of committees in total

Frequency:

As required

EXAMPLE ATTRIBUTES:

Date Formed
Jurisdiction
Members
Name
Purpose
Schedule

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ENTITY NAME:	DEFINITION:
Component	A pump, valve, pipe, breaker, etc. which make up a system (e.g. cooling, electrical) in a unit or facility

---

PROPERTIES:

Origin:

DSI
RES
DQAVT
Regions

Access:

Shared

Volume:

4,000-10,000 components/unit

Frequency:

As required

EXAMPLE ATTRIBUTES:

Date of Problem
ID Number
Industry Standard
Loading Factor
Operational Limits
Performance Characteristics
Problem Experienced
Problem Type
Qualifications
Reliability
Safety Significance
Severity
Type (pump, valve, pipe, breaker)

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ENTITY NAME:

Contractor (NRC)

NOTE:

As a result of the data modeling activities during May-June 1985, some entities were changed. It was determined that "contractor (NRC)" should be broadened to include providers of goods and services who are not paid, such as grantees. See page II-16a for the definition, properties and example attributes of this new entity.

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ENTITY NAME:	DEFINITION:
Contractor/Provider (NRC)	A supplier of goods and services to the NRC
SYNONYM:	Supplier (NRC)

PROPERTIES:

Origin:

Any organization

Access:

Shared

Volume:

225 active contractors/year
3,000-4,000 suppliers/year
10 national labs/year
100-150 technical assistance contractors/year

Frequency:

Daily

EXAMPLE ATTRIBUTES:

Address
Clearance Level
Contact
Contract Number
Contract Title
Expertise
History
ID Number
Line of Business
Location
Name
Performance Evaluation
Type (EDP, test lab, office supplies)

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ENTITY NAME:

Cooperative Agreement

NOTE:

As a result of the data modeling activities during May-June 1985, some entities were changed. It was determined that "cooperative agreement" was a type of "provision agreement" which was initiated through a type of "provision request". See pages II-17a and II-17b for the definition, properties and example attributes of these new entities.

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ENTITY NAME:	DEFINITION:
Provision Agreement	The agreement between the NRC and a contractor or provider for the provision of goods and services

---

PROPERTIES:

Origin:

Any organization

Access:

Shared, Sensitive (dependent on phase)

Volume:

4,000 purchase orders issued/year
200-400 contracts/year
30-50 research contracts/year
200-400 technical assistance contracts/year
700-800 contract modifications/year
10-20 interagency agreements in total
30 active cooperative agreements in total
40 active grants in total

Frequency:

Daily

EXAMPLE ATTRIBUTES:

Amendments	ID Number
Appropriation Number	Invoice Amount
BR Number	Invoice Number
Contract Period	Maximum Dollar Amount
Date of Award	Place Work Performed
Date of Expiration	Project Manager
Date of Issue	Security Classification
Date Received	Status
Description	Task Order Number
Dollar Amount	Type (contract, P.O.)
FIN Number	Work Authorization

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ENTITY NAME:	DEFINITION:
Provision Request	A request for the provision of goods or services

---

PROPERTIES:

Origin:

Any organization

Access:

Shared

Volume:

4,000 requisitions/year
14,000 facility/property requisitions/year
1,000-1,200 requests for procurement action/year
75-100 requests for proposal/year

Frequency:

Daily

EXAMPLE ATTRIBUTES:

Approved by
BR Number
Date of Issue
Date Ordered
Date Received
Date Submitted
Description
Dollar Amount
FIN Number
ID Number
Item
Method of Solicitation
Originator
Procurement Specialist
Status
Stock Number
Type (RFP, RFPA, requisition)

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ENTITY NAME:	DEFINITION:
Cost Standards	Generic cost estimates or standard techniques to evaluate the economic impact on the nuclear industry from specific regulatory changes

---

PROPERTIES:

Origin:

RM/B
DST

Access:

Shared

Volume:

3 volumes of cost standards in total (NUREG/CR 3971, NUREG/BR 0058, and NUREG/CR 3568)

Frequency:

As required

EXAMPLE ATTRIBUTES:

Allocation Method
Direct Cost
Economic Impact
Indirect Cost
Radiation Exposure
Standard Rate/Unit of Cost
Type (labor, material, overhead)

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ENTITY NAME: Decision

DEFINITION: A judgement formally pronounced by a court or other authority

---

PROPERTIES:

Origin:

ASLAP
LR
GC
LOA
SECY
ASLBP
OCM

Access:

Shared

Volume:

1,500-2,000 decisions/year

Frequency:

Daily

EXAMPLE ATTRIBUTES:

Activity
Contention
Date Assigned
Date Due
Docket Number
Duration
ID Number
Manpower
Milestone
Outcome
Parties
Reason for Denial
Responsibility
Ruling
Schedule
Subject
Title

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ENTITY NAME:	DEFINITION:
Decision Unit	A defined program area of the NRC's budget structure

---

PROPERTIES:

Origin:

RM/B

Access:

Shared, Sensitive (depending on phase)

Volume:

60-70 decision units/year

Frequency:

Daily, Weekly, Monthly (depending on phase)

EXAMPLE ATTRIBUTES:

ID Number
Manpower-Actual
Manpower-Estimated
Responsibility

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ENTITY NAME:	DEFINITION:
Deficiency	A design, engineering, construction or procedural shortcoming found with a nuclear licensee, transporter, vendor or package, including Part 21 and 50.55E

PROPERTIES:

Origin:

IE
DQAVT
NMSS
Regions

Access:

Shared

Volume:

2,500-3,000 construction deficiencies/year
8,000-10,000 total deficiencies/year

Frequency:

Weekly

EXAMPLE ATTRIBUTES:

Cause
Corrective Action
Date
Description
Device
Docket Number
Impact
Source of Identification
Status
Type (construction)

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ENTITY NAME:	DEFINITION:
Demographics	A body of information related to the vital and social statistics of the population inhabiting the area surrounding a nuclear site or transportation route

---

PROPERTIES:

Origin:

DRA
DEP

Access:

Shared

Volume:

70-100 reactor sites
30-80 major material/fuel sites

Frequency:

Annually

EXAMPLE ATTRIBUTES:

Area
Effect
Location
Population
Transportation
Vehicles

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ENTITY NAME:	DEFINITION:
Design	A detailed set of specifications from which a nuclear facility, unit, structure, system, component, package, etc. is fabricated, constructed, and installed

---

PROPERTIES:

Origin:

FC
DL
SG
WM
FC
DSI

Access:

Shared

Volume:

50-75 reactor designs in total
100-200 package designs in total
Thousands of designs per unit or facility

Frequency:

As required

EXAMPLE ATTRIBUTES:

Analysis
Configuration Drawings
Date
Source Firm
Source Individual
Type (architectural, engineering)

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ENTITY NAME:	DEFINITION:
Deviation	A departure from a written commitment where there is no binding regulatory basis for a violation citation

---

PROPERTIES:

Origin:

Regions
IE

Access:

Shared

Volume:

200-500 deviations/year

Frequency:

As required

EXAMPLE ATTRIBUTES:

Date
Description
Docket Number
Findings
Licensee Response

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ENTITY NAME:	DEFINITION:
Document*	Any book, paper, map, photograph, brochure, punch tape, sound recording, pamphlet, slide, motion picture, or other documentary material regardless of form or characteristics, made by, in the possession of, or under the control of the NRC (10 CFR)
SYNONYM:	Record

PROPERTIES:

Origin:

Any organization
TIDC consolidates for DCS
PDR consolidates for Public Documents

Access:

Shared, Sensitive, Classified, Stand-alone

Volume:

250,000-300,000 documents entered into DCS/year
1,500,000 total documents in DCS
1,300,000 total documents in PDR
Total documents throughout NRC, excluding DCS and PDR, unknown

Frequency:

As required

EXAMPLE ATTRIBUTES:

Accession Number	Proprietary
Author	Publicly Available
Date	Responsibility
Description	Security Classification
Distribution	Source
Docket Number	Status
ID Number	Subject
Name	Type (letter, memo)

*During validation, it was determined that entities from the original data entity list were actually documents. These included Industry Standard, Information Notice, Licensee Procedure, and Testimony. It was determined that 1) full text was always required for these documents, and 2) there was no data to record about the document.

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ENTITY NAME:	DEFINITION:
Drill	A training exercise conducted to simulate the response to an operating procedure, event or other emergency situation

---

PROPERTIES:

Origin:

DEP
Regions/RS
NMSS

Access:

Shared

Volume:

50-100 drills/year

Frequency:

Monthly

EXAMPLE ATTRIBUTES:

Date
Description
Evaluation
Participants
Type (incident response, shutdown response)

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ENTITY NAME:	DEFINITION:
Economic Information	A body of information related to economic statistics or consumer demand (e.g. CPI, GNP or electritity demand)

PROPERTIES:

Origin:

SP

Access:

Shared

Volume:

Undetermined volume of economic information

Frequency:

Annually

EXAMPLE ATTRIBUTES:

Consumer Price Index
Electricity Demand
Geographic Location
Gross National Product
Population
Year

ENTITY NAME:	DEFINITION:
Employee (NRC)	An individual in the employ of the NRC, excluding external advisors, consultants, and experts

---

PROPERTIES:

Origin:

O&P

Access:

Shared, Sensitive (compensation, deductions)

Volume:

3,500 NRC employees in total

Frequency:

Daily or as required

EXAMPLE ATTRIBUTES:

Address	ID Number
Benefits	Insurance
Certifications	Name
Clearance Level	Overtime Hours
Date (hire, review)	Phone Number
Education	Regular Hours
Eligible Promotion	Salary
Experience	Social Security Number
Grade	Step
Handicaps	Title

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ENTITY NAME:	DEFINITION:
Enforcement Action	An action (such as a civil penalty, notice of violation or order) taken by the NRC against a licensee who is in violation of a regulation

---

PROPERTIES:

Origin:

ES
Regions/RSS
NRR
NMSS

Access:

Shared, Sensitive

Volume:

2,000-3,000 notices of violation/year
100 civil penalties/year
10 orders/year

Frequency:

Weekly or as required

EXAMPLE ATTRIBUTES:

Date
Name
Penalty
Severity
Status
Type (penalty, order)

AVAILABLE

ENTITY NAME:	DEFINITION:
Equipment (NRC-technical)	Any machinery or apparatus which is used for testing, measurement or analysis
SYNONYM:	Instrument

PROPERTIES:

Origin:

Regions/RSS
DEP

Access:

Shared

Volume:

1,000's of pieces of technical equipment in total

Frequency:

As required

EXAMPLE ATTRIBUTES:

Calibration
Cost
Custodian
Date Placed in Service
Description
ID Number
Location
Maintenance History
Manufacturer
Repair Costs
Type (radiograph)

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ENTITY NAME:	DEFINITION:
Event	An occurrence that is reported to the NRC
SYNONYM:	Accident, Alert, Crisis, Emergency, Incident, Occurrence

---

PROPERTIES:

Origin:

Regions/RSS/RS/RP
DE
IE
AEOD

Access:

Shared, Sensitive

Volume:

2,000-3,000 events/year (based on new threshold), excluding revisions
2,500-3,000 revisions/year

Frequency:

As required

EXAMPLE ATTRIBUTES:

Cause
Closure Assignment
Consequences
Corrective Action
Date
Description
Evaluation
LER Number
Location
Reason
Response
Severity
Status
Type (LOCA, station blackout, fire, human error)

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ENTITY NAME:	DEFINITION:
Examination (operator)	A proficiency test which must be passed by individuals who wish to become or remain licensed reactor operators

---

PROPERTIES:

Origin:

Regions/RP
DHFS

Access:

Shared, Sensitive (medical data and exam grade)

Volume:

2,000-3,000 operator examinations/year

Frequency:

Monthly

EXAMPLE ATTRIBUTES:

Address
Date
Decision Issued
Name
Next Scheduled Examination
Passing Rates
Renewal Date
Result
Type (senior)

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ENTITY NAME:	DEFINITION:
Exposure	The absorption of radiation or ingestion of a radionuclide

---

PROPERTIES:

Origin:

DRPES
DSI

Access:

Shared

Volume:

18 dose ranges in total
1,000 licensee reports on occupational exposures/year
150,000 individuals (non-NRC) tracked in total

Frequency:

Monthly

EXAMPLE ATTRIBUTES:

Dose
Duration
Employer
Name
Severity
Social Security Number
Source Term

ENTITY NAME:	DEFINITION:
Facility (Non-reactor)	An installation at a site used for the fabrication of nuclear fuel or the storage of radioactive material/spent fuel

---

PROPERTIES:

Origin:

RIVUR
WM
FC
SG
NMSS
Regions

Access:

Shared

Volume:

150-200 licensed facilities in total

Frequency:

Daily

EXAMPLE ATTRIBUTES:

Construction Company
Design Type
Docket Number
Industry Standard
Location
Maintenance Outages
Manufacturer
Name
Operating Power Level
Planned Outages
Profile
Project Manager
SALP Rating
Status
Type (fuel fabrication, waste disposal)

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ENTITY NAME:

Fee

DEFINITION:

A charge assessed to license applicants or licensees to recover specified NRC license, review, inspection or security access authorization costs

---

PROPERTIES:

Origin:

LFMB
SEC

Access:

Shared

Volume:

80 quarterly inspection fees or 320/year
50 semiannual construction permits or 100/year
600 semiannual amendments or 1,200/year
6,000 material license fees/year
100 semiannual reactor operator fees or 200/year
70 semiannual topical report review fees or 140/year
50-100 access authorization fees/year (SEC)

Frequency:

Monthly

EXAMPLE ATTRIBUTES:

Docket Number
Dollar Amount
Expended Man-hours
Source of Fee
Type (license, inspection)

AVAILABLE

ENTITY NAME:	DEFINITION:
FOIA Request	A query made for information under the Freedom of Information Act

---

PROPERTIES:

Origin:

Any organization
Consolidated in DRR

Access:

Shared

Volume:

1,000-1,500 requests/year and growing

Frequency:

Daily

EXAMPLE ATTRIBUTES:

Date Due
Date Materials Sent
Date of Request
Fee
Materials Not Sent
Materials Sent
Related Requests
Requestor
Security Classification
Status
Subject Matter of Request

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ENTITY NAME:	DEFINITION:
Fuel Assembly	A cluster of fuel material, such as rods, plates, etc.

PROPERTIES:

Origin:

WM
NMSS

Access:

Shared

Volume:

22,000-25,000 total fuel assemblies in core
20,000-30,000 total fuel assemblies irradiated

Frequency:

As required

EXAMPLE ATTRIBUTES:

Date Placed in Service
ID Number
Location
Percent Enrichment
Status
Type (in-core, irradiated)

AVAILABLE

ENTITY NAME:	DEFINITION:
G/L Account	A record within the general ledger used for capturing accounting transactions
SYNONYM:	Account Code

PROPERTIES:

Origin:

RM/A

Access:

Shared

Volume:

200 G/L accounts in total

Frequency:

Daily

EXAMPLE ATTRIBUTES:

Account Name
Account Number
Dollar Amount
Funds

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ENTITY NAME:

Generic Issue

NOTE:

As a result of the data modeling activities during May-June 1985, some entities were changed. It was determined that "generic issue" should be merged with "unresolved safety issue". See page II-39a for the definition, properties and example attributes.

AVAILABLE

ENTITY NAME:	DEFINITION:
Generic/Unresolved Safety Issue	A matter of concern relating to multiple sites, units, packages, facilities or transporters that has been designated by the Commission as a Generic Issue or an open safety related matter which may or may not be officially designated as such
SYNONYM:	Issue

PROPERTIES:

Origin

DE
DST
NMSS
Regions
Consolidated in ROGRS

Access:

Shared

Volume:

10-15 Generic Issues/year
150 Generic Issues for reactors
300 Generic Issues in total
1-3 unresolved safety issues generated/year
10-15 unresolved safety issues pending in total

Frequency:

As required

EXAMPLE ATTRIBUTES:

Category (1 or 2; 1=urgent)
Cognizance (organization and employee)
Dates (initiated, approved, issued)
Facilities (usually multiple plants)
Impact (text; cost, benefit, risk)
Item Number (sequence number)
Origin (organization and employee)
Plan (text; organization, resource, schedule)
Reference (to NUREG number, bulletins)
Related Issues (item numbers)
Resolution (propcsed method; rule, bulletin)
Type (power reactor, materials)

Revised 6/11/85

ENTITY NAME:	DEFINITION:
Generic Letter	A technical directive issued by the NRC to more than one licensee requiring that a specific response be given or an action be taken

---

PROPERTIES:

Origin:

DE
DL

Access:

Shared

Volume:

25-45 generic letters/year

Frequency:

Monthly

EXAMPLE ATTRIBUTES:

Applicability
Closure Assignment
Closure Status
Date
Description
Generic Letter Number
Inspection Procedure
Response Due Date
Revisions/Supplements
Subject

Revised 6/11/85

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ENTITY NAME:

Grant

NOTE:

As a result of the data modeling activities during May-June 1985, some entities were changed. It was determined that "grant" was a type of "provision agreement" which was initiated through a type of "provision request". See pages II-17a and II-17b for the definition, properties and example attributes of these new entities.

ENTITY NAME:	DEFINITION:
Grievance	A formal complaint filed 1) against the NRC by an employee regarding conditions of employment, or 2) against an employee by the NRC with regard to performance or conduct

---

PROPERTIES:

Origin:

O&P
SDBU/CR

Access:

Sensitive, Stand-alone

Volume:

10 EEO grievances/year
120-200 other grievances/year
80-120 performance conduct cases/year

Frequency:

Weekly

EXAMPLE ATTRIBUTES:

Action
Complainant
Counselor
Date
Description
Responsibility

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ENTITY NAME:	DEFINITION:
Guide/Standard (NRC)	A description and approach which constitutes one way of satisfying NRC regulations
SYNONYM:	Regulatory Guide, Standard

PROPERTIES:

Origin:

RES
NMSS
DQAVT
DE
NRR

Access:

Shared

Volume:

100-200 guides and standards currently issued

Frequency:

As required

EXAMPLE ATTRIBUTES:

Applicability
Date Effective
Industry Standard
Origination
Predecessor
Regulatory Guide Number
Review Plans
Status
Subject
Task Number
Type (regulatory guide, NMSS standard)

ENTITY NAME:	DEFINITION:
Hearing	A proceeding in which evidence or legal argument is presented for purposes of decision

---

PROPERTIES:

Origin:

SECY
ASLBP
ASLAP
LHD
LOA
LROE
GC
CA
OCM

Access:

Shared, Classified (less than 1%)

Volume:

50-100 hearings conducted/year

Frequency:

Monthly or as required

EXAMPLE ATTRIBUTES:

Congressional Committee
Contention
Court
Date
Location
Milestones
Motions
Orders
Parties
Status
Subject
Tribunal
Type

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ENTITY NAME:	DEFINITION:
Inquiry	A query posed by the Congress, a member of Congress their staff or other party or organization requesting information or explanation from the NRC

PROPERTIES:

Origin:

SECY
Regions
CA
GC
ACRS

Access:

Shared, Sensitive

Volume:

400 inquiries/year

Frequency:

As Required

EXAMPLE ATTRIBUTES:

Author
Date Received
Response
Response Date
Responsibility
Subject
Type (external, internal)

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ENTITY NAME:	DEFINITION:
Inspection	The act of reviewing or examining a structure, system, component or operation in a nuclear facility, unit, package, etc. to determine compliance with NRC regulations, guidelines

---

PROPERTIES:

Origin:

Regions/RSS/RP/RS
DQAVT
DIP

Access:

Shared

Volume:

150-200 fuel facility inspections/year (DIP)
200 vendor inspections/year (DQAVT)
20-30 agreement state inspections/year (Regions)
2,500-2,700 material inspections/year (DIP, Regions)
3,600-3,800 power reactor inspections/year (DIP, Regions)
50-100 non-power reactor inspections/year (DIP, Regions)

Frequency:

As required

EXAMPLE ATTRIBUTES:

Activities	Location
Date	Next Due Inspection Date
Description	Responsibility
Docket Number	Status
Expended Man-hours	Summary
Findings	Task
ID Number	Type (routine, vendor)

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ENTITY NAME:	DEFINITION:
Inspection Module	A series of defined steps to be performed by an inspector as part of the inspection

---

PROPERTIES:

Origin:

IE

Access:

Shared

Volume:

20,000-30,000 modules completed/year
1,000-2,500 modules exist in total

Frequency:

Monthly

EXAMPLE ATTRIBUTES:

Activities
Date Revised
Docket Number
ID Number
Man-hours
Module Number
Percent Complete
Responsibility
Task

AVAILABLE

ENTITY NAME:	DEFINITION:
Inspection Program	A series of inspection modules that make up the inspection program for a 1) specific licensee, 2) type of licensee, or 3) SALP functional area

---

PROPERTIES:

Origin:

IE

Access:

Shared

Volume:

50-80 inspection programs in total

Frequency:

Quarterly

EXAMPLE ATTRIBUTES:

Applicable Module Number
Date Revised
Docket Number
ID Number
Man-hours
Objective
Responsibility

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ENTITY NAME:

Interagency Agreement

NOTE:

As a result of the data modeling activities during May-June 1985, some entities were changed. It was determined that "interagency agreement" was a type of "provision agreement" which was initiated through a type of "provision request". See pages II-17a and II-17b for the definition, properties and example attributes of these new entities.

ENTITY NAME:	DEFINITION:
Interagency Agreement (technical)	An accord between the NRC and any other agency or governmental body, excluding the provision of goods and services and the IAEA Safeguard Agreement

---

PROPERTIES:

Origin:

RES
NMSS
MDTS

Access:

Shared, Sensitive

Volume:

40-60 technical agreements in total
10 national labs in total

Frequency:

As required

EXAMPLE ATTRIBUTES:

Agency
Area of Expertise
Contact
Cost
Date
Evaluation of Performance
ID Number
Name
Period of Performance
Subject
Type (national lab, technical agreement)

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ENTITY NAME:	DEFINITION:
International Agreement	An accord, such as the IAEA Safeguard Agreement, between the United States and an international agency or foreign government which addresses the import, export, and international safeguards issues of nuclear material

---

PROPERTIES:

Origin:

OIP
NMSS

Access:

Shared, Sensitive (Facilities-safeguards)

Volume:

20-30 countries in total

Frequency:

As required

EXAMPLE ATTRIBUTES:

Agency
Country
Date
Funding
Subject

ENTITY NAME:	DEFINITION:
Intervenor	An individual, organization or governmental body (other than an applicant, licensee or NRC employee) which seeks to participate in a licensing proceeding

---

PROPERTIES:

Origin:

SECY
ASLBP
ASLAP
LHD
GC

Access:

Shared, Classified (less than 1%)

Volume:

10-15 intervenors/year

Frequency:

Monthly

EXAMPLE ATTRIBUTES:

Address
Phone Number
Name

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ENTITY NAME:	DEFINITION:
Investigation (case)	A searching inquiry for ascertaining facts related to an alleged wrongdoing
SYNONYM:	Case (investigation)

PROPERTIES:

Origin:

OI
OIA

Access:

Shared, Sensitive, Stand-alone

Volume:

200-300 investigations/year (OI)
200-250 investigations/year (OIA)

Frequency:

As required

EXAMPLE ATTRIBUTES:

Alleged Against
Assignment Number
Closing Action
Date of Occurrence
Date Reported
Docket Number
External
ID Number
Internal
Name
Grigination Date
Penalty
Percent Complete
Responsibility
Status
Subject

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ENTITY NAME:	DEFINITION:
Issue (general)	A matter of general concern that has been identified by the NRC, another organization or individual as a problem but has not been officially designated as a Generic Issue by the Commission
SYNONYM:	Issue

PROPERTIES:

Origin:

Any organization

Access:

Shared

Volume:

1,000's of issues/year

Frequency:

Monthly

EXAMPLE ATTRIBUTES:

Cause
Date Approved
Date Identified
Date Initiated
Date Prioritized
Disposition
ID Number
Impact
Priority
Resolution
Responsibility
Scope
Source
Status
Subject
Title

AVAILABLE

ENTITY NAME:	DEFINITION:
License	A certificate of formal authority granted by the NRC to an applicant to build a nuclear unit or facility and/or to possess, use, transport or dispose of nuclear materials

---

PROPERTIES:

Origin:

NMSS
NRR
Regions/RSS/RS
GC
ASLBP

Access:

Shared

Volume:

40-50 fuel cycle licenses in total (NMSS)
100-200 reactor licenses (power and non-power)in total (NRR)
5,000 operator licenses in total (Regions)
9,000-10,000 material licenses in total (NMSS)

Frequency:

As required

EXAMPLE ATTRIBUTES:

Date Issued
Description
Docket Number
ID Number
License Type (operator, reactor, by-product)
Name
Status

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ENTITY NAME:	DEFINITION:
License Applicant	A party requesting a license
SYNONYM:	Applicant

PROPERTIES:

Origin:

DL
Regions/OI
FC
NMSS
SG
WM

Access:

Shared

Volume:

15-25 reactor applicants (active) in total (DL)
5-10 reactor applicants (inactive) in total (DL)
2,500 operator applicants new and renewal/year (Regions)
6,000 material applicants/year (FC)

Frequency:

As required

EXAMPLE ATTRIBUTES:

Docket Number
License Type (operator, waste site, fuel fabrication)

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ENTITY NAME:	DEFINITION:
License Application	A body of information submitted by those seeking to become a licensee

---

PROPERTIES:

Origin:

DL
FC
Regions/RS
NMSS
SG
WM
ASLBP
GC

Access:

Shared

Volume:

30-35 reactor applications (active) in total (DL)
15-20 reactor applications (inactive) in total (DL)
1,000-1,500 material applications/year (FC)
2,000-3,000 operator applications/year (Regions)

Frequency:

As required

EXAMPLE ATTRIBUTES:

Date Initiated
Description
Docket Number
License Type (materials, reactor)
Status

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ENTITY NAME:	DEFINITION:
Licensee	A party to whom a license has been granted

PROPERTIES:

Origin:

NRR
NMSS
Regions/RSS/RP/RS
GC
ASLBP
SP

Access:

Shared

Volume:

100-200 reactor licensees (power and non-power) in total (NRR)
4,000-5,000 operator licensees in total (Regions)
8,500-9,000 material licensees in total (NMSS)
40 fuel cycle licensees in total (NMSS)

Frequency:

As required

EXAMPLE ATTRIBUTES:

Contact
Country
Docket Number
History
ID Number
Location
Name
Public/Private
Qualification
Responsibility
SALP Rating
Status
Type (operator, material, by-product)

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ENTITY NAME:	DEFINITION:
Licensee Commitment	A commitment by a licensee to perform a specific action
SYNONYM:	Commitment

PROPERTIES:

Origin:

Regions/RS
NMSS
DL
IE

Access:

Shared

Volume:

2,000-3,000 licensee commitments/year

Frequency:

Weekly or as required

EXAMPLE ATTRIBUTES:

Confirmatory Action Letter Sent
Date
Date Implemented
Due Date
Previous Assessments
Subject

ENTITY NAME:

Licensee Performance
Evaluation

NOTE:

As a result of the data modeling activities during May-June 1985, some entities were changed. It was determined that "licensee performance evaluation" was an application using information contained in the entities "licensee" and "inspection". See pages II-46 and I-58 for the definition, properties and example attributes of these other entities.

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ENTITY NAME:	DEFINITION:
Licensee Plan	A licensee plan related to safety, site physical security, quality assurance or emergency preparedness
SYNONYM:	Plan

PROPERTIES:

Origin:

Regions/RSS/RS
DEP
DQAVT
NMSS
SG

Access:

Shared, Sensitive, Classified (Security plans)

Volume:

100-200 safety and security plans/year
100-200 QA and emergency preparedness plans/year

Frequency:

Monthly

EXAMPLE ATTRIBUTES:

Activities
Alarms
Barriers
Date Developed
Date Revised
Detection Devices
Guards
Resources
Responsibility
Security
Status
Subject
Type (security, QA, emergency preparedness)

AVAILABLE

ENTITY NAME:	DEFINITION:
Licensing Action	An activity associated with a license such as an amendment or exemptions

---

PROPERTIES:

Origin:

DE
DL
ASLBP
NMSS
ES
Regions
GC
DEP
DQAVT

Access:

Shared

Volume:

50 reliefs for reactors/year
150-200 exemptions for reactors/year
10-50 exemptions for EP and QA/year
1,200-1,300 licensing actions/year completed (excludes amendments)
800-1,000 amendments/year for reactors
4,000-5,000 amendments/year for materials

Frequency:

Weekly

EXAMPLE ATTRIBUTES:

Cost
Date of Completion
Date Requested
Docket Number
Federal Register Citation
ID Number
Project Manager
Reason
Responsibility
Safety Analysis
Status
Subject
Type (order, exemption)

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ENTITY NAME:	DEFINITION:
Meeting	An assembly or gathering of individuals to discuss or decide a specific matter or matters

---

PROPERTIES:

Origin:

Any organization

Access:

Shared, Sensitive

Volume:

100's of meetings/year

Frequency:

As required

EXAMPLE ATTRIBUTES:

Date
Location
Open/Closed
Participants
Status
Subject
Time
Title

ENTITY NAME:	DEFINITION:
Open "TMI" Item	An unresolved or unimplemented matter or activity which resulted from the accident at Three Mile Island

---

PROPERTIES:

Origin:

RES
IE
DL

Access:

Shared

Volume:

150-300 "TMI" items completed/year
700-800 open "TMI" items in total

Frequency:

Monthly

EXAMPLE ATTRIBUTES:

Date
Docket Number
Response
Responsibility
Status
Subject

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ENTITY NAME:	DEFINITION:
Open Item (licensing)	A licensing activity or matter which is open or not yet completed
SYNONYM:	Outstanding Item (licensing)

PROPERTIES:

Origin:

DE
DL
NMSS

Access:

Shared

Volume:

1,000-3,000 open licensing items in total

Frequency:

Monthly

EXAMPLE ATTRIBUTES:

Activities
Area
Date
Description
Docket Number
Due Date
Expended Man-hours
ID Number
Responsibility
Source
Status
Status of Issues
Subject
Task

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ENTITY NAME:	DEFINITION:
Organization	Any "business unit" of the NRC, such as an office, division, branch or section

---

PROPERTIES:

Origin:

O&P
MDTS

Access:

Shared

Volume:

800-810 organizations in total

Frequency:

As required

EXAMPLE ATTRIBUTES:

Actual Head Count
Functions Performed
Location
Number of Visitors
Planned Head Count
Positions Available
Positions Filled
Type (office, division, branch, section)

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ENTITY NAME:	DEFINITION:
Outstanding Item (inspection)	An inspection module or inspection activity which is open or not yet completed

---

PROPERTIES:

Origin:

Regions/RSS/RP/RS
DIP
IE

Access:

Shared

Volume:

3,500-7,000 outstanding inspection items generated/year
7,000-15,000 outstanding inspection items pending

Frequency:

Weekly

EXAMPLE ATTRIBUTES:

Activities
Area
Date
Description
Docket Number
Due Date
Expended Man-hours
ID Number
Responsibility
Source
Status
Subject
Task
Title

ENTITY NAME:	DEFINITION:
Package	A container used to store and/or ship radioactive materials
SYNONYM:	Cask

PROPERTIES:

Origin:

FC
WM

Access:

Shared

Volume:

8,000-12,000 packages in total (FC)
220 package designs in total (FC)
360 registered package users in total (FC,WM)

Frequency:

Weekly or as required

EXAMPLE ATTRIBUTES:

Date Placed in Service
Leakage
Location
Type (category 1)

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ENTITY NAME:	DEFINITION:
Patent	The exclusive right to exclude others from making, using, and selling an invention
SYNONYM:	Intellectual Property

PROPERTIES:

Origin:

LOA

Access:

Shared, Sensitive (sensitive until patent filed)

Volume:

400 intellectual property items acted on/year

Frequency:

Monthly

EXAMPLE ATTRIBUTES:

Amendments
Date of Actual Reduction to Practice
Date of Application
Date of Conception
Date Filed
Date of Modeling
Date Publicized
Inventor
Item
Patent Holder
Patent Number
Subject
Title

ENTITY NAME:	DEFINITION:
Personnel Action	The act of recruiting, hiring, terminating, transferring or promoting a recruit, applicant or employee

---

PROPERTIES:

Origin:

O&P
ELD (under certain exceptions)
ASLBP (under certain exceptions)

Access:

Sensitive

Volume:

11,000-13,000 personnel actions/year

Frequency:

Daily

EXAMPLE ATTRIBUTES:

Action (hire, promotion)
Date
Name
Supervisor

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ENTITY NAME:	DEFINITION:
Petition	A formal request from an interested party or organization seeking a legal action, right or benefit

---

PROPERTIES:

Origin:

LHD
LROE
ASLBP
ASLAP
SECY
GC
OCM

Access:

Shared

Volume:

25-50 petitions/year

Frequency:

Monthly

EXAMPLE ATTRIBUTES:

Date
Date of Final Action
Due Date
Federal Register Notice
Final Action
Initiator
Milestones
Outcome
Responsibility
Response
Status
Subject
Type of Action Sought

ENTITY NAME:	DEFINITION:
Physical Security (NRC)	A guard, watchman, alarm or barrier which protects, inspects or authorizes access to NRC employees, information or property

---

PROPERTIES:

Origin:

SEC

Access:

Stand-alone

Volume:

12 headquarters buildings in total
1,400 visits to headquarters buildings/year

Frequency:

Daily

EXAMPLE ATTRIBUTES:

Classification
Clearance
Location
Responsibility
Type (guard, card, key, badge)

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ENTITY NAME:	DEFINITION:
Planned Accomplishment	A defined subprogram consisting of one or more objectives within a decision unit and reflects resources used

---

PROPERTIES:

Origin:

Any organization

Access:

Shared, Sensitive (dependent on phase)

Volume:

450-500 planned accomplishments/year

Frequency:

Daily, Weekly (dependent on phase)

EXAMPLE ATTRIBUTES:

Activities
Budgeted Dollars
Budgeted Man-hours
Due Date
Expended Dollars
Expended Man-hours
ID Number
Object Class
Plan
Project Manager
Responsibility
Staff Loading
Subject

ENTITY NAME:	DEFINITION:
Pleading	The formal statement of allegations and counter allegations setting forth the cause of action of a case
SYNONYM:	Brief, Contention, Motion, Response

PROPERTIES:

Origin:

SECY
ASLBP
ASLAP
ELD and all of its divisions
GC

Access:

Shared, Classified (less than 1%)

Volume:

3,000-3,500 pleadings/year

Frequency:

Weekly

EXAMPLE ATTRIBUTES:

Activity	Outcome
Date Assigned	Reason
Date Due	Response By
Docket Number	Responsibility
Duration	Schedule
ID Number	Status
Initiator	Subject
Milestone	Submitted By

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ENTITY NAME:	DEFINITION:
Position	The duties and responsibilities to be performed by an individual

---

PROPERTIES:

Origin:

O&P

Access:

Shared

Volume:

3,600-4,000 positions in total

Frequency:

As required

EXAMPLE ATTRIBUTES:

Ceiling Grade
Ceiling Step
Clearance Level
Filled (yes, no)
Floor Grade
Floor Step
ID Number
Man-hours
Required Certifications
Required Education
Required Experience
Required Specialized Areas
Required Training
Title

ENTITY NAME:	DEFINITION:
Power Utility	An organization which provides electricity to the public
SYNONYM:	Electric Utility

PROPERTIES:

Origin:

SP
Regions/RSS

Access:

Shared

Volume:

200 power utilities involved in nuclear power generation

Frequency:

As required

EXAMPLE ATTRIBUTES:

Area Served
Assets
Contact
Income
Liabilities
Location
Name
Performance Incentive Plans
Revenue

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ENTITY NAME:

Procurement Action

NOTE:

As a result of the data modeling activities during May-June 1985, some entities were changed. It was determined that "procurement action" was composed of types of "provision agreement(s)" which are initiated through types of "provision request(s)". See pages II-17a and II-17b for the definition, properties and example attributes of these new entities.

ENTITY NAME:	DEFINITION:
Project	A planned series of activities, studies or tasks performed in an effort to solve specific problems or accomplish specific goals, excluding research programs

---

PROPERTIES:

Origin:

Any organization

Access:

Shared

Volume:

1,000's of projects /year

Frequency:

Weekly

EXAMPLE ATTRIBUTES:

Date Started
Due Date
Expected Regulatory Applications
Expected Products
Findings
ID Number
Manager
Milestones
Objectives
Priority
Purpose
Recommendation
Responsibility
Risk Assessment
Status
Subject
Type (systems development, geological, environmental impact)

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ENTITY NAME:	DEFINITION:
Property (NRC)	Any furniture, equipment, supplies or other items having economic value which are owned or leased by the NRC, except real property

---

PROPERTIES:

Origin:

FOS

Access:

Shared, Sensitive

Volume:

15,000 equipment items
1,300 supply, forms and furniture line items in the warehouse

Frequency:

As required

EXAMPLE ATTRIBUTES:

Assigned To
Capital Cost
Custodian
Depreciation Value
Description
ID Number
Location
Model Year
Operating Cost
Reorder Level
Reorder Quantity
Residual Value
Responsibility
Serial Number
Type (furniture, equipment)

ENTITY NAME:	DEFINITION:
Public Utility Commission	A governmental body that is charged with the regulation of public utility companies within its jurisdiction

---

PROPERTIES:

Origin:

OSP

Access:

Shared

Volume:

50 Public Utility Commissions in total

Frequency:

As required

EXAMPLE ATTRIBUTES:

Address
Contact
Licensee Indemnity Agreements
Licensee Property Insurance
Performance Incentive Plan
State

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ENTITY NAME:	DEFINITION:
Radioactive Material (accountability)	The tracking, monitoring, and controlling of nuclear material by location, movement, usage and form changes throughout the fuel cycle
SYNONYM:	Fuel Cycle

PROPERTIES:

Origin:

FC

Access:

Sensitive

Volume:

300,000 fuel cycle instances/year

Frequency:

Daily

EXAMPLE ATTRIBUTES:

Date
Element
Enrichment
Form
Inventory
Isotope
Material
Material Balance
Quantities
Location
Responsibility
Stage (fabrication, storage)
Status
Transaction

ENTITY NAME:	DEFINITION:
Reactor Operator	An individual who is licensed to operate a nuclear reactor
SYNONYM:	Operator

PROPERTIES:

Origin:

DHFS
Regions/RP/RS

Access:

Sensitive

Volume:

4,000 reactor operators currently licensed in total

Frequency:

Monthly or as required

EXAMPLE ATTRIBUTES:

Docket Number
Examination Result
ID Number
Location
Name
Position (trainee, operations, engineering)
Type of License

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ENTITY NAME:	DEFINITION:
Recruit/Applicant	An individual who seeks employment with the NRC

PROPERTIES:

Origin:

O&P
ELD (under certain exceptions)
ASLBP (under certain exceptions)

Access:

Sensitive

Volume:

1,900-2,100 applicants/year

Frequency:

Daily

EXAMPLE ATTRIBUTES:

Age
Certifications
Clearance/145b
Education
Ethnic Origin
Experience
Handicaps
Level Sought
Name
Position Sought
Race
Sex
Specialized Areas
Status

ENTITY NAME:	DEFINITION:
Regulation	An NRC rule (or proposed rule) with which licensees must comply
SYNONYM:	Rule

PROPERTIES:

Origin:

DRR
ELD
NMSS
DL
SECY
ASLAP
ASLBP
GC
RES

Access:

Shared

Volume:

10-20 regulations issued/year

Frequency:

Monthly or as required

EXAMPLE ATTRIBUTES:

Date Effective
Date Issued
Date Proposed
Date Revised
Federal Register Citation
Final Rule
ID Number
Name
Proposed
Requestor
Response
Revision Number
Status
Subject
Type (reactor, waste)

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ENTITY NAME:	DEFINITION:
Release	The controlled or uncontrolled escape of radioactive material

---

PROPERTIES:

Origin:

Regions/RP
NMSS

Access:

Shared

Volume:

300-500 releases/year

Frequency:

As required

EXAMPLE ATTRIBUTES:

Amount
Dose
Location
Severity

ENTITY NAME:	DEFINITION:
Research Program	A coordinated group of activities that are performed to solve specific research problems or accomplish specific goals

---

PROPERTIES:

Origin:

RES
NRR

Access:

Shared

Volume:

10 research programs/year involving 700 research activities

Frequency:

As required

EXAMPLE ATTRIBUTES:

Budgeted Dollars
Budgeted Man-hours
Completion Date
Description
Expected Regulatory Applications
Expected Products
Expended Dollars
Expended Man-hours
Fiscal Year
Manager
Name
Purpose
Start Date
Status

ENTITY NAME:	DEFINITION:
Scientific Code/Data	Any scientific data (e.g. engineering, chemical, seismic, meteorological) and the computer programs or algorithms used to compute, process or model that data

---

PROPERTIES:

Origin:

DE
RES
NMSS

Access:

Shared, Stand-alone (scientific code)

Volume:

20-50 modeling codes in total
Undetermined volume of scientific data

Frequency:

As required

EXAMPLE ATTRIBUTES:

Author
Date
Options
Type (seismic)
Validation

ENTITY NAME:	DEFINITION:
Shipment	The transportation of radioactive materials

PROPERTIES:

Origin:

NMSS
SG
FC
IE
Regions

Access:

Shared, Sensitive

Volume:

2.5-3.0 million package shipments/year
150-300 spent fuel shipments/year
20-30 Category 2 (1-5kg/uranium) shipments/year
3,800-4,600 Category 3 (no security) shipments/year

Frequency:

Daily

EXAMPLE ATTRIBUTES:

Date of Shipment
Destination
Element
Inventory
Material Balances
Material Type (isotope, transuranic)
Mode of Transport
Point of Origin
Quantities
Transportation Route

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ENTITY NAME:	DEFINITION:
Site	The geographic confines of an NRC licensed area including a unit, waste disposal facility or other licensed facility

---

PROPERTIES:

Origin:

NRR
WM
FC
RIVUR
Regions/RSS/RP
IE

Access:

Shared, Sensitive

Volume:

78 reactor sites in total
400 major fuel cycle sites in total
10,000 minor fuel cycle sites in total

Frequency:

As required

EXAMPLE ATTRIBUTES:

Contact
Docket Number
Key Management Staff
Location

ENTITY NAME:	DEFINITION:
State	Any state, the District of Columbia, Puerto Rico, territory or possession of the United States

---

PROPERTIES:

Origin:

SP

Access:

Shared

Volume:

50 states
District of Columbia
Puerto Rico
Other possessions and territories

Frequency:

Monthly or as required

EXAMPLE ATTRIBUTES:

Date Agreement Signed
Officer
Staff
State Name
State Officials
Telephone Number
Type (agreement, non-agreement)

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ENTITY NAME:	DEFINITION:
Statute	A law issued or legislation proposed by the federal government or a state government which impacts the regulatory power or scope of the NRC
SYNONYM:	Act, Bill, Law, Legislation

PROPERTIES:

Origin:

ELD
GC
LHD
ASLBP

Access:

Shared

Volume:

30-50 statutes enacted/year relevant to the NRC
1,000 statutes enacted in total relevant to the NRC
50-100 pieces of legislation proposed/year relevant to the NRC

Frequency:

As required

EXAMPLE ATTRIBUTES:

Action Required
Author
Date Effective
Date Enacted
Date Issued
Date Proposed
NRC comments
Status
Subject

ENTITY NAME:	DEFINITION:
Structure	A complex configuration of construction members, such as beams or reinforced concrete walls and floors, assembled to make up a complete frame or building at a nuclear site

---

PROPERTIES:

Origin:

DE

Access:

Shared

Volume:

Less than 6 primary building structures/unit

Frequency:

As required

EXAMPLE ATTRIBUTES:

Architect
Construction Company
Construction Date
Engineer
Purpose
Type (steel, concrete)

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ENTITY NAME:	DEFINITION:
System	An assemblage of components which perform a specific function such as cooling, containment, piping or power generation

---

PROPERTIES:

Origin:

DSI
DRPES
Regions

Access:

Shared

Volume:

120-130 primary systems with containment and mitigation significance
120-130 secondary systems with safety significance
85 operational power reactors in total
70 operational non-power reactors in total
150-200 all reactors in total

Frequency:

As required

EXAMPLE ATTRIBUTES:

Characteristics
Date Places in Service
Design
Failure
Failure Frequency
Industry Standard
Leakage
Location
Operational Limits
Performance Characteristics
Probabilities
Reliability
Serial Number
Status
Type (bwr, pwr, cooling, controls, instrumentation)

ENTITY NAME:	DEFINITION:
Technical Specification/ License Condition	A written requirement that specifies operational and performance criteria which may be included as a part of the license

---

PROPERTIES:

Origin:

DE
DL
DSI
NMSS

Access:

Shared

Volume:

1,500-2,000 technical specifications issued/year
1,000 license conditions issued/year

Frequency:

As required

EXAMPLE ATTRIBUTES:

Date Effective
Date Issued
Date Last Revised
Evaluation
Industry Standard
Interpretations
Reactor Type
Subject
Version Number

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ENTITY NAME:	DEFINITION:
Test	An evaluation of the performance and quality of a specific component, system, facility, package, etc.
SYNONYM:	Measurement

PROPERTIES:

Origin:

Regions/RS/RSS
FC
NMSS
NRR

Access:

Shared, Sensitive

Volume:

10,000 tests conducted/year

Frequency:

Weekly

EXAMPLE ATTRIBUTES:

Date of Testing
Findings
Type (destructive, non-destructive)

ENTITY NAME:	DEFINITION:
Threat	An indication or warning of probable trouble which may affect the security or safety of a nuclear site

---

PROPERTIES:

Origin:

SG
Regions

Access:

Sensitive, Classified

Volume:

100-150 threats/year

Frequency:

Weekly or as required

EXAMPLE ATTRIBUTES:

Caller Description
Date
Facility Threatened
Time
Type (bomb, intrusion)

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ENTITY NAME:	DEFINITION:
Topical Report	An engineering report, submitted by a licensee or a vendor, to the NRC which explains and analyzes a system, procedure, piece of hardware, modeling code or any combination of these
SYNONYM:	Engineering Report

PROPERTIES:

Origin:

NMSS
NRR
IE

Access:

Shared, Sensitive (proprietary)

Volume:

1,500 topical reports in total
250 revisions, amendments or supplements/year

Frequency:

As required

EXAMPLE ATTRIBUTES:

Accession Number
Applicability
Approval
Charges
Configuration
Due Date
Man-hours
Process
Proprietary
Responsibility
Results
Revision
Subject
Submitted by

AVAILABLE

ENTITY NAME: Training

DEFINITION: The education or instruction of an employee

PROPERTIES:

Origin:

MDTS
DQAVT
Regions
IE

Access:

Shared, Sensitive (Privacy Act)

Volume:

4,800 instances of attendance at courses or seminars in total

Frequency:

As required

EXAMPLE ATTRIBUTES:

Available Openings
Cost (direct, indirect)
Course Type
Date
Description
Document Number
Length
Location
Required Qualifications/Prerequisites
Source
Title
Type (management development, technical)

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ENTITY NAME:	DEFINITION:
Travel	An authorized trip taken by an individual on official business and reimbursed by the NRC or other governmental agency
SYNONYM:	Trip

PROPERTIES:

Origin:

RM/A
MDTS

Access:

Shared, Sensitive (Social Security Number)

Volume:

25,000 trips/year

Frequency:

Daily

EXAMPLE ATTRIBUTES:

Advance
Authorization Number
Carrier
Dates
Destination
Expended Dollars-Travel/Per Diem
Expended Man-hours
Obligated Dollars
Purpose
Schedule
Type (airplane, automobile)

ENTITY NAME:	DEFINITION:
Union	An organization of workers who have joined together to achieve a common purpose

---

PROPERTIES:

Origin:

O&P

Access:

Stand-alone

Volume:

1 government employees union

Frequency:

As required

EXAMPLE ATTRIBUTES:

Contact
Contract Description
Location
Name
Officials

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ENTITY NAME:	DEFINITION:
Unit	The entire electrical power generating facility, including, for example, the reactor vessel, containment, power generation, control, and auxiliary systems
SYNONYM:	Plant, Facility (reactor)

PROPERTIES:

Origin:

DE
DSI
IE
DAE
GC

Access:

Shared, Sensitive

Volume:

85 operational power units in total
70 operational non-power units in total
150-200 all units in total

Frequency:

As required

EXAMPLE ATTRIBUTES:

Construction Contractor
Design Type
Docket Number
Industry Standard
Location
Maintenance Outages
Manufacturer
Name
Property Manager
Operating Power Level
Planned Outages
Profile
Project Manager
SALP Rating
Status
Type (power, research, advanced, foreign)

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ENTITY NAME:

Unresolved Safety Issue

NOTE:

As a result of the data modeling activities during May-June 1985, some entities were changed. It was determined that "unresolved safety issue" should be merged with "generic issue". See page II-39a for the definition, properties and example attributes.

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ENTITY NAME:

Vendor

DEFINITION:

An individual or organization that furnishes goods or services to an NRC licensee. For vendors supplying goods or services to the NRC, see Contractor (NRC)

PROPERTIES:

Origin:

DE
DQAVT
FC
WM

Access:

Shared

Volume:

300-1,000 licensee vendors in total

Frequency:

Monthly or as required

EXAMPLE ATTRIBUTES:

Address
Clearance Level
Contact
Financial Status
Location
Name
Type (engineering, architectural, manufacturing)

ENTITY NAME:	DEFINITION:
Violation	The failure by a licensee to comply with legally binding NRC rules, regulations or license conditions
SYNONYM:	Non-compliance

PROPERTIES:

Origin:

ES
Regions/RSS/RS/RP
IE

Access:

Shared, Sensitive

Volume:

25-50 severity level 1 violations/year
25-50 severity level 2 violations/year
1,000-1,500 severity level 3 violations/year
1,000-1,500 severity level 4 violations/year
1,000-1,500 severity level 5 violations/year

Frequency:

Weekly

EXAMPLE ATTRIBUTES:

Consequences
Date
Description
Docket Number
Findings
Licensee Response
Penalty Amount
Severity

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ENTITY NAME:	DEFINITION:
Visitor	An individual who visits a nuclear site or NRC building who is not an employee or a contractor

---

PROPERTIES:

Origin:

SEC

Access:

Shared, Stand-alone (Privacy Act)

Volume:

15,000 visitors/year

Frequency:

Daily

EXAMPLE ATTRIBUTES:

Clearance Level
Date of Visit
Documents Requested
Name
Purpose of Visit
Time of Visit

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ENTITY NAME:	DEFINITION:
Witness	An individual who gives testimony under oath or affirmation

---

PROPERTIES:

Origin:

OI
LOA
SECY
ASLAP
ASLBP
ELD
OCM
LHD
Regions

Access:

Shared, Sensitive, Stand-alone

Volume:

600-900 witnesses/year

Frequency:

Monthly or as required

EXAMPLE ATTRIBUTES:

Address
Confidentiality Status
Name
Occupation

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ENTITY NAME:	DEFINITION:
Work Item	An item that is tracked as to its status for the purpose of planning, monitoring, and controlling, such as correspondence, Commission tasks or EDO decisions
SYNONYM:	Assignment, Miscellaneous Item

PROPERTIES:

Origin:

Any organization

Access:

Shared

Volume:

200-300 work items at any point in time
1000's of miscellaneous items at any point in time

Frequency:

As required

EXAMPLE ATTRIBUTES:

Activity
Assignment Date
Description
Due Date
Duration
Man-hours
Milestones
Occurrences
Response
Responsibility
Schedule
Staff
Status
Subject
Task

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NRC FORM 335 (2-84) NRCM 1102, 3201, 3202

U.S. NUCLEAR REGULATORY COMMISSION

BIBLIOGRAPHIC DATA SHEET

SEE INSTRUCTIONS ON THE REVERSE

1 REPORT NUMBER (Assigned by TIDC, add Vol. No., if any)

NUREG/CR-4322, Vol. 2

2. TITLE AND SUBTITLE

Corporate Data Network (CDN) Data Requirements Task
Vol. 2: Data Entity Dictionary

3. LEAVE BLANK

4. DATE REPORT COMPLETED

MONTH	YEAR
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5. AUTHOR(S)

6. DATE REPORT ISSUED

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Washington, DC 20036

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Division of Automated Information Services
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11a. TYPE OF REPORT

Technical

b. PERIOD COVERED (Inclusive dates)

January - June 1985

12. SUPPLEMENTARY NOTES

13. ABSTRACT (200 words or less)

The NRC has initiated a multi-year program to centralize its information processing in a Corporate Data Network (CDN). The new information processing environment will include shared databases, telecommunications, office automation tools, and state-of-the-art software. Touche Ross and Company was contracted with to perform a general data requirements analysis for shared databases and to develop a preliminary plan for implementation of the CDN concept. The Enterprise Model (Vol. 1) provided the NRC with agency-wide information requirements in the form of data entities and organizational demand patterns as the basis for clustering the entities into logical groups. The Data Dictionary (Vol. 2) provided the NRC with definitions and example attributes and properties for each entity. The Data Model (Vol. 3) defined logical databases and ehtity relationships within and between databases. The Preliminary Strategic Data Plan (Vol. 4) prioritized the development of databases and included a workplan and approach for implementation of the shared database component of the Corporate Data Network.

14 DOCUMENT ANALYSIS - a KEYWORDS/DESCRIPTORS

data modeling
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data processing
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b. IDENTIFIERS/OPEN-ENDED TERMS

15 AVAILABILITY STATEMENT

Unlimited

16 SECURITY CLASSIFICATION

(This page) Unclassified

(This report) Unclassified

17 NUMBER OF PAGES

18 PRICE

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